

Serial Number:

09/051,8430

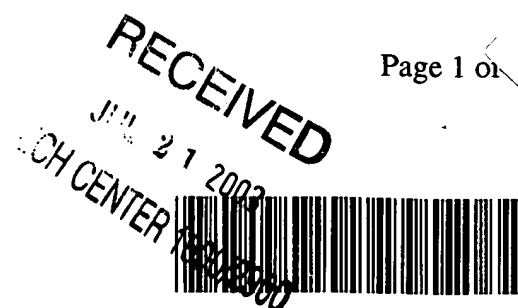
ENTERED

1600

2/17/2003

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was wrapped down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



1600

RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

3 <110> APPLICANT: Willson, Tracey
 4 Nicola , Nicos
 5 Hilton, Douglas
 6 Metcalf, Donald
 7 Zhang , Jian
 9 <120> TITLE OF INVENTION: A novel haemopoietin receptor and genetic sequences encoding
 same
 11 <130> FILE REFERENCE: 11373
 13 <140> CURRENT APPLICATION NUMBER: US 09/051843D
 14 <141> CURRENT FILING DATE: 1998-06-29
 16 <150> PRIOR APPLICATION NUMBER: AU PN6135
 17 <151> PRIOR FILING DATE: 1995-10-23
 19 <150> PRIOR APPLICATION NUMBER: AU PN7276
 20 <151> PRIOR FILING DATE: 1995-12-22
 22 <150> PRIOR APPLICATION NUMBER: AU PP2208
 23 <151> PRIOR FILING DATE: 1996-09-09
 25 <160> NUMBER OF SEQ ID NOS: 12
 27 <170> SOFTWARE: PatentIn version 3.1
 29 <210> SEQ ID NO: 1
 30 <211> LENGTH: 1680
 31 <212> TYPE: DNA
 32 <213> ORGANISM: Mus musculus
 34 <220> FEATURE:
 35 <221> NAME/KEY: CDS
 36 <222> LOCATION: (61)..(1332)
 37 <223> OTHER INFORMATION:
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 43 Met Ala Arg Pro Ala Leu Leu Gly Glu Leu Leu Val Leu Leu Leu Trp
 44 1 5 10 15
 46 acc gcc acc gtg ggc caa gtt gcc gcg gcc aca gaa gtt cag cca cct 156
 47 Thr Ala Thr Val Gly Gln Val Ala Ala Ala Thr Glu Val Gln Pro Pro
 48 20 25 30
 50 gtg acg aat ttg agc gtc tct gtc gaa aat ctc tgc acg ata ata tgg 204
 51 Val Thr Asn Leu Ser Val Ser Val Glu Asn Leu Cys Thr Ile Ile Trp
 52 35 40 45
 54 acg tgg agt cct cct gaa gga gcc agt cca aat tgc act ctc aga tat 252
 55 Thr Trp Ser Pro Pro Glu Gly Ala Ser Pro Asn Cys Thr Leu Arg Tyr
 56 50 55 60
 58 ttt agt cac ttt gat gac caa cag gat aag aaa att gct cca gaa act 300
 59 Phe Ser His Phe Asp Asp Gln Gln Asp Lys Lys Ile Ala Pro Glu Thr
 60 65 70 75 80
 62 cat cgt aaa gag gaa tta ccc ctg gat gag aaa atc tgt ctg cag gtg 348

RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

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66 ggc tct cag tgt agt gcc aat gaa agt gag aag cct agc cct ttg gtg      396
67 Gly Ser Gln Cys Ser Ala Asn Glu Ser Glu Lys Pro Ser Pro Leu Val
68      100      105      110
70 aaa aag tgc atc tca ccc cct gaa ggt gat cct gag tcc gct gtg act      444
71 Lys Lys Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu Ser Ala Val Thr
72      115      120      125
74 gag ctc aag tgc att tgg cat aac ctg agc tat atg aag tgt tcc tgg      492
75 Glu Leu Lys Cys Ile Trp His Asn Leu Ser Tyr Met Lys Cys Ser Trp
76      130      135      140
78 ctc cct gga agg aat aca agc cct gac aca cac tat act ctg tac tat      540
79 Leu Pro Gly Arg Asn Thr Ser Pro Asp Thr His Tyr Thr Leu Tyr Tyr
80 145      150      155      160
82 tgg tac agc agc ctg gag aaa agt cgt caa tgt gaa aac atc tat aga      588
83 Trp Tyr Ser Ser Leu Glu Lys Ser Arg Gln Cys Glu Asn Ile Tyr Arg
84      165      170      175
86 gaa ggt caa cac att gct tgt tcc ttt aaa ttg act aaa gtg gaa cct      636
87 Glu Gly Gln His Ile Ala Cys Ser Phe Lys Leu Thr Lys Val Glu Pro
88      180      185      190
90 agt ttt gaa cat cag aac gtt caa ata atg gtc aag gat aat gct ggg      684
91 Ser Phe Glu His Gln Asn Val Gln Ile Met Val Lys Asp Asn Ala Gly
92      195      200      205
94 aaa att agg cca tcc tgc aaa ata gtg tct tta act tcc tat gtg aaa      732
95 Lys Ile Arg Pro Ser Cys Lys Ile Val Ser Leu Thr Ser Tyr Val Lys
96      210      215      220
98 cct gat cct cca cat att aaa cat ctt ctc ctc aaa aat ggt gcc tta      780
99 Pro Asp Pro Pro His Ile Lys His Leu Leu Leu Lys Asn Gly Ala Leu
100 225      230      235      240
102 tta gtg cag tgg aag aat cca caa aat ttt aga agc aga tgc tta act      828
103 Leu Val Gln Trp Lys Asn Pro Gln Asn Phe Arg Ser Arg Cys Leu Thr
104      245      250      255
106 tat gaa gtg gag gtc aat aat act caa acc gac cga cat aat att tta      876
107 Tyr Glu Val Glu Val Asn Asn Thr Gln Thr Asp Arg His Asn Ile Leu
108      260      265      270
110 gag gtt gaa gag gac aaa tgc cag aat tcc gaa tct gat aga aac atg      924
111 Glu Val Glu Glu Asp Lys Cys Gln Asn Ser Glu Ser Asp Arg Asn Met
112      275      280      285
114 gag ggt aca agt tgt ttc caa ctc cct ggt gtt ctt gcc gac gct gtc      972
115 Glu Gly Thr Ser Cys Phe Gln Leu Pro Gly Val Leu Ala Asp Ala Val
116      290      295      300
118 tac aca gtc aga gta aga gtc aaa aca aac aag tta tgc ttt gat gac      1020
119 Tyr Thr Val Arg Val Arg Val Lys Thr Asn Lys Leu Cys Phe Asp Asp
120 305      310      315      320
122 aac aaa ctg tgg agt gat tgg agt gaa gca cag agt ata ggt aag gag      1068
123 Asn Lys Leu Trp Ser Asp Trp Ser Glu Ala Gln Ser Ile Gly Lys Glu
124      325      330      335
126 caa aac tcc acc ttc tac acc acc atg tta ctc acc att cca gtc ttt      1116
127 Gln Asn Ser Thr Phe Tyr Thr Thr Met Leu Leu Thr Ile Pro Val Phe

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RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

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130 gtc gca gtg gca gtc ata atc ctc ctt ttt tac ctg aaa agg ctt aag      1164
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132          355          360          365
134 atc att ata ttt cct cca att cct gat cct ggc aag att ttt aaa gaa      1212
135 Ile Ile Ile Phe Pro Pro Ile Pro Asp Pro Gly Lys Ile Phe Lys Glu
136          370          375          380
138 atg ttt gga gac cag aat gat gat acc ctg cac tgg aag aag tat gac      1260
139 Met Phe Gly Asp Gln Asn Asp Asp Thr Leu His Trp Lys Lys Tyr Asp
140 385          390          395          400
142 atc tat gag aaa caa tcc aaa gaa gaa acg gat tct gta gtg ctg ata      1308
143 Ile Tyr Glu Lys Gln Ser Lys Glu Glu Thr Asp Ser Val Val Leu Ile
144          405          410          415
146 gaa aac ctg aag aaa gca gct cct tgatggggag aagtgatttc tttcttgccct      1362
147 Glu Asn Leu Lys Lys Ala Ala Pro
148          420
150 tcaatgtgac cctgtgaaga tttattgcat tctccatttg ttatctgggg gacttggttaa      1422
152 atagaaactg aaactactct tgaaaaacag gcagctccta agagccacag gtcttgatgt      1482
154 gacttttgca ttgaaaaccc aaacccaaag gagctccttc caagaaaagc aagagttcct      1542
156 ctcgttcctt gttccaatcc ctaaaagcag atgttttgcc aaatccccaactagaggac      1602
158 aaagacaagg ggacaatgac catcaattca tctaatacagg aattgtgatg gcttcctaag      1662
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163 <210> SEQ ID NO: 2
164 <211> LENGTH: 424
165 <212> TYPE: PRT
166 <213> ORGANISM: Mus musculus
168 <400> SEQUENCE: 2
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174 Thr Ala Thr Val Gly Gln Val Ala Ala Thr Glu Val Gln Pro Pro
175          20          25          30
178 Val Thr Asn Leu Ser Val Ser Val Glu Asn Leu Cys Thr Ile Ile Trp
179          35          40          45
182 Thr Trp Ser Pro Pro Glu Gly Ala Ser Pro Asn Cys Thr Leu Arg Tyr
183          50          55          60
186 Phe Ser His Phe Asp Asp Gln Gln Asp Lys Lys Ile Ala Pro Glu Thr
187 65          70          75          80
190 His Arg Lys Glu Glu Leu Pro Leu Asp Glu Lys Ile Cys Leu Gln Val
191          85          90          95
194 Gly Ser Gln Cys Ser Ala Asn Glu Ser Glu Lys Pro Ser Pro Leu Val
195          100          105          110
198 Lys Lys Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu Ser Ala Val Thr
199          115          120          125
202 Glu Leu Lys Cys Ile Trp His Asn Leu Ser Tyr Met Lys Cys Ser Trp
203          130          135          140
206 Leu Pro Gly Arg Asn Thr Ser Pro Asp Thr His Tyr Thr Leu Tyr Tyr
207 145          150          155          160
210 Trp Tyr Ser Ser Leu Glu Lys Ser Arg Gln Cys Glu Asn Ile Tyr Arg
211          165          170          175

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RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

214 Glu Gly Gln His Ile Ala Cys Ser Phe Lys Leu Thr Lys Val Glu Pro
 215 180 185 190
 218 Ser Phe Glu His Gln Asn Val Gln Ile Met Val Lys Asp Asn Ala Gly
 219 195 200 205
 222 Lys Ile Arg Pro Ser Cys Lys Ile Val Ser Leu Thr Ser Tyr Val Lys
 223 210 215 220
 226 Pro Asp Pro Pro His Ile Lys His Leu Leu Leu Lys Asn Gly Ala Leu
 227 225 230 235 240
 230 Leu Val Gln Trp Lys Asn Pro Gln Asn Phe Arg Ser Arg Cys Leu Thr
 231 245 250 255
 234 Tyr Glu Val Glu Val Asn Asn Thr Gln Thr Asp Arg His Asn Ile Leu
 235 260 265 270
 238 Glu Val Glu Glu Asp Lys Cys Gln Asn Ser Glu Ser Asp Arg Asn Met
 239 275 280 285
 242 Glu Gly Thr Ser Cys Phe Gln Leu Pro Gly Val Leu Ala Asp Ala Val
 243 290 295 300
 246 Tyr Thr Val Arg Val Arg Val Lys Thr Asn Lys Leu Cys Phe Asp Asp
 247 305 310 315 320
 250 Asn Lys Leu Trp Ser Asp Trp Ser Glu Ala Gln Ser Ile Gly Lys Glu
 251 325 330 335
 254 Gln Asn Ser Thr Phe Tyr Thr Thr Met Leu Leu Thr Ile Pro Val Phe
 255 340 345 350
 258 Val Ala Val Ala Val Ile Ile Leu Leu Phe Tyr Leu Lys Arg Leu Lys
 259 355 360 365
 262 Ile Ile Ile Phe Pro Pro Ile Pro Asp Pro Gly Lys Ile Phe Lys Glu
 263 370 375 380
 266 Met Phe Gly Asp Gln Asn Asp Asp Thr Leu His Trp Lys Lys Tyr Asp
 267 385 390 395 400
 270 Ile Tyr Glu Lys Gln Ser Lys Glu Glu Thr Asp Ser Val Val Leu Ile
 271 405 410 415
 274 Glu Asn Leu Lys Lys Ala Ala Pro
 275 420

278 <210> SEQ ID NO: 3

279 <211> LENGTH: 1383

280 <212> TYPE: DNA

281 <213> ORGANISM: human

283 <220> FEATURE:

284 <221> NAME/KEY: CDS

285 <222> LOCATION: (61)..(1338)

286 <223> OTHER INFORMATION:

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 292 Met Glu Trp Pro Ala Arg Leu Cys Gly Leu Trp Ala Leu Leu Leu Cys
 293 1 5 10 15
 295 gcc ggc ggc ggg ggc ggg ggc ggc ggc cct acg gaa act cag cca 156
 296 Ala Gly Gly Gly Gly Gly Gly Gly Gly Ala Pro Thr Glu Thr Gln Pro
 297 20 25 30
 299 cct gtg aca aat ttg agt gtc tct gtt gaa aac ctc tgc aca gta ata 204

RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 19:39:27

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07172003\I051843D.raw

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304 Trp Thr Trp Asn Pro Pro Glu Gly Ala Ser Ser Asn Cys Ser Leu Trp
305          50          55          60
307 tat ttt agt cat ttt ggc gac aaa caa gat aag aaa ata gct ccg gaa      300
308 Tyr Phe Ser His Phe Gly Asp Lys Gln Asp Lys Lys Ile Ala Pro Glu
309 65          70          75          80
311 act cgt cgt tca ata gaa gta ccc ctg aat gag agg att tgt ctg caa      348
312 Thr Arg Arg Ser Ile Glu Val Pro Leu Asn Glu Arg Ile Cys Leu Gln
313          85          90          95
315 gtg ggg tcc cag tgt agc acc aat gag agt gag aag cct agc att ttg      396
316 Val Gly Ser Gln Cys Ser Thr Asn Glu Ser Glu Lys Pro Ser Ile Leu
317          100          105          110
319 gtt gaa aaa tgc atc tca ccc cca gaa ggt gat cct gag tct gct gtg      444
320 Val Glu Lys Cys Ile Ser Pro Pro Glu Gly Asp Pro Glu Ser Ala Val
321          115          120          125
323 act gaa ctt caa tgc att tgg cac aac ctg agc tac atg aag tgt tct      492
324 Thr Glu Leu Gln Cys Ile Trp His Asn Leu Ser Tyr Met Lys Cys Ser
325          130          135          140
327 tgg ctc cct gga agg aat acc agt ccc gac act aac tat act ctc tac      540
328 Trp Leu Pro Gly Arg Asn Thr Ser Pro Asp Thr Asn Tyr Thr Leu Tyr
329 145          150          155          160
331 tat tgg cac aga agc ctg gaa aaa att cat caa tgt gaa aac atc ttt      588
332 Tyr Trp His Arg Ser Leu Glu Lys Ile His Gln Cys Glu Asn Ile Phe
333          165          170          175
335 aga gaa ggc caa tac ttt ggt tgt tcc ttt gat ctg acc aaa gtg aag      636
336 Arg Glu Gly Gln Tyr Phe Gly Cys Ser Phe Asp Leu Thr Lys Val Lys
337          180          185          190
339 gat tcc agt ttt gaa caa cac agt gtc caa ata atg gtc aag gat aat      684
340 Asp Ser Ser Phe Glu Gln His Ser Val Gln Ile Met Val Lys Asp Asn
341          195          200          205
343 gca gga aaa att aaa cca tcc ttc aat ata gtg cct tta act tcc cgt      732
344 Ala Gly Lys Ile Lys Pro Ser Phe Asn Ile Val Pro Leu Thr Ser Arg
345          210          215          220
347 gtg aaa cct gat cct cca cat att aaa aac ctc tcc ttc cac aat gat      780
348 Val Lys Pro Asp Pro Pro His Ile Lys Asn Leu Ser Phe His Asn Asp
349 225          230          235          240
351 gac cta tat gtg caa tgg gag aat cca cag aat ttt att agc aga tgc      828
352 Asp Leu Tyr Val Gln Trp Glu Asn Pro Gln Asn Phe Ile Ser Arg Cys
353          245          250          255
355 cta ttt tat gaa gta gaa gtc aat aac agc caa act gag aca cat aat      876
356 Leu Phe Tyr Glu Val Glu Val Asn Asn Ser Gln Thr Glu Thr His Asn
357          260          265          270
359 gtt ttc tac gtc caa gag gct aaa tgt gag aat cca gaa ttt gag aga      924
360 Val Phe Tyr Val Gln Glu Ala Lys Cys Glu Asn Pro Glu Phe Glu Arg
361          275          280          285
363 aat gtg gag aat aca tct tgt ttc atg gtc cct ggt gtt ctt cct gat      972
364 Asn Val Glu Asn Thr Ser Cys Phe Met Val Pro Gly Val Leu Pro Asp

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/17/2003
PATENT APPLICATION: US/09/051,843D TIME: 19:39:28

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\07172003\I051843D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 3
Seq#:10; Xaa Pos. 24
Seq#:11; Xaa Pos. 24



1600

RAW SEQUENCE LISTING

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 08:15:50

Input Set : N:\Crf4\07152003\I051843A.raw

Output Set: N:\CRF4\07172003\I051843D.raw

1 <110> APPLICANT: Willson, Tracey
 2 Nicola , Nicos
 3 Hilton, Douglas
 4 Metcalf, Donald
 5 Zhang , Jian
 6 <120> TITLE OF INVENTION: A novel haemopoietin receptor and genetic sequences encoding
 same
 7 <130> FILE REFERENCE: 11373
 C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/051,843D
 9 <141> CURRENT FILING DATE: 1998-06-29
 10 <150> PRIOR APPLICATION NUMBER: AU PN6135
 11 <151> PRIOR FILING DATE: 1995-10-23
 12 <150> PRIOR APPLICATION NUMBER: AU PN7276
 13 <151> PRIOR FILING DATE: 1995-12-22
 14 <150> PRIOR APPLICATION NUMBER: AU PP2208
 15 <151> PRIOR FILING DATE: 1996-09-09
 16 <160> NUMBER OF SEQ ID NOS: 12
 17 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

416 <210> SEQ ID NO: 12
 417 <211> LENGTH: 5
 418 <212> TYPE: PRT
 419 <213> ORGANISM: unknown
 420 <220> FEATURE:
 421 <223> OTHER INFORMATION: peptide motif found in many members of the haemopoietin
 receptor
 422 family
 423 <400> SEQUENCE: 12
 424 Trp Ser Asp Trp Ser
 425 1 5
 E--> 426

Handwritten signature
 Does Not Comply
 Corrected Diskette Needed

Handwritten signature
 -1-
 delete

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/17/2003
PATENT APPLICATION: US/09/051,843D TIME: 08:15:51

Input Set : N:\Crf4\07152003\I051843A.raw
Output Set: N:\CRF4\07172003\I051843D.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

Seq#:12; Line(s) 421

VERIFICATION SUMMARY

DATE: 07/17/2003

PATENT APPLICATION: US/09/051,843D

TIME: 08:15:51

Input Set : N:\Crf4\07152003\I051843A.raw

Output Set: N:\CRF4\07172003\I051843D.raw

L:8 M:270 C: Current Application Number differs, Wrong Format
L:27 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:0
L:185 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:0
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16
L:426 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:12